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APPLICATION NO.	FILING DATE	, FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,759	11/27/2001	Choi Wonmun	AOK-0200 7553	
75	590 10/20/2004	•	EXAM	INER
RADER, FISHMAN & GRAUER, PLLC Suite 501			SELLERS, ROBERT E	
1233 20th Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20036			1712	

DATE MAILED: 10/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	m		
Office Action Summary	09/993,759	WONMUN ET AL.			
Office Action Summary	Examiner	Art Unit			
TI- MANUALO DATE - CALIC - CANADA AND AND AND AND AND AND AND AND AN	Robert Sellers	1712			
The MAILING DATE of this communication app Period for Reply			S		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the application to become ARANDONE	nely filed s will be considered timely. the mailing date of this commun	nication.		
Status					
1) Responsive to communication(s) filed on 01 Se	<u>eptember 2004</u> .				
2a) ☐ This action is FINAL . 2b) ☐ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) <u>5-7</u> is/are withdrawn f	rom consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)⊠ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-15	2.		
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority 	have been received. have been received in Applicatio	on No	、		
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
	•				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (F Paper No(s)/Mail Date	PTO-413)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) L Notice of Informal Pat	tent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				

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1. Claims 3-7 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected inventions, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on September 1, 2004.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 2 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

- 2. The dihalogen compound X-R-X embraces species wherein R is -(CHCH₂O)₂CH-CH₂- (specification, page 5, line 13). Such a moiety contains a dangling valence in the -CH- portion. It is unclear what is bonded to the fourth valence of the -CH- substituent.
- 3. The source of the sulfide linkages in Example 4 on page 8 is unclear since the reactants sodium tetrafluoride and 1,2-bis(2-chloroethoxy)methane do not contain any sulfur atoms.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- 4. Yatsuyanagi et al. (cols, 21, 30 and 37, Polysulfide rubber 1) shows a method for producing a polysulfide by reacting 1,2-dichloroethane and sodium tetrasulfide in the presence of a calculated amount of 454.7 parts by weight (per 100 parts by weight of the 1,2-dichloroethane) of methanol and benzyl chloride. However, the formula for the polysulfide is linear (col. 2, lines 31-35, formula I) as opposed to the claimed cyclic structure of formula (I).
- 5. The remainder of the cited prior art sets forth the preparation of polysulfides which are not characterized as cyclic. Furthermore, only Japanese Patent No. 46-27543 and the article by Cranker et al. set forth any solvents. However, the solvents are not within the realm of the claimed incompatible mixed solvent of a hydrophilic and lipophilic solvent.

(571) 272-1093 (Fax no. (703) 872-9306) Monday to Friday from 9:30 to 6:00 EST

Any administrative inquiries can be obtained by accessing the Patent Application Information Retrieval (PAIR) system. Published applications are available through either private or public PAIR. Unpublished applications are available via private PAIR only. Consult http://pair-direct.uspto.gov or contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

Robert Sellers Primary Examiner Art Unit 1712